The history of agriculture

Get ready!

- Before you read the passage, talk about these questions.
 - 1 When did farming first begin in your country?
 - 2 What did farmers first grow in your country?

Chapter 1) The Development of Agriculture

Agriculture began in the area known as the Fertile Crescent. The area is a hot, dry desert. But it has two of the requirements for farming: good soil and a water supply.

Many early farmers used the Nile River as a water supply. The Nile River floods at the same time every year. Farmers planted crops before the floods. This helped their plants to survive in the desert. Later, farmers created irrigation ditches. They moved water from the Nile River to their fields. They could cultivate crops any time of the year and harvest extra food.

Producing extra food was important. Later, farmers fed animals with it. These domesticated animals became another important part of agriculture.



- Pead the textbook passage. Then, mark the following statements as true (T) or false (F).
 - Crops cannot grow in deserts.
 - 2 _ The Nile River floods every year.
 - 3 __ Farmers raised animals before plants.

Vocabulary

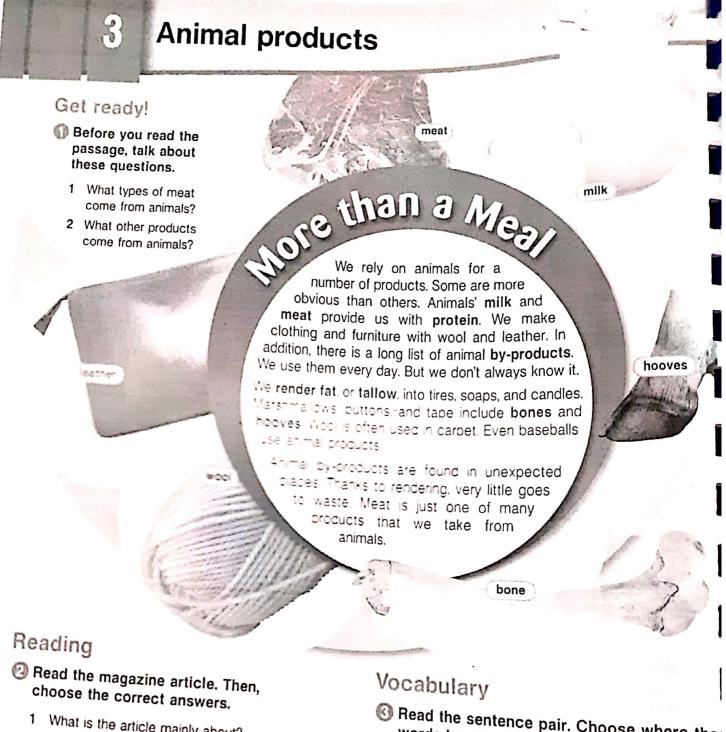
- Match the words (1-6) with the definitions (A-F).
 - 4 _ produce 1 __ agriculture 5 _ domesticate 2 _ crop
 - 6 _ plant 3 __ cultivate
 - A a large group of cultivated plants
 - B to put seeds in soil
 - C growing plants and raising animals
 - D to make something
 - E to raise a crop from seeding to harvest
 - F to tame an animal
- Read the sentence pair. Choose where the words best fit the blanks.
 - 1 water supply / irrigation
 - A The river is the farmer's __
 - B _____helps farmers grow crops in areas with little rainfall.
 - 2 harvesting / farming
 - _____ncludes raising animals and
 - B Farmers wait until crops are mature to star
- 🖟 Listen and read the text book passage again. Then, say three things you have learnt from the text.

Speaking (i) With a partner, act out the roles below istening based on Task 7. Then, switch roles. Listen to a conversation between a student and teacher in a history class. USE LANGUAGE SUCH AS: Choose the correct answers. Excuse me. 1 What is the conversation mainly about? How did early farmers ... A a way to predict floods They connected ... B an early irrigation method C the number of early farmers Student A: You are a student learning about D the most common early crops early agriculture. Ask Student B about. 2 How did farmers control water? water supply A They put gates in ditches. watering fields B They filled ditches with dirt. controlling water C They carried water in buckets. Student B: You are a History teacher. Answer D They planted far from the river. Student A's questions. 🕡 闷 Listen again and complete the conversation. __ Mrs. Anderson.(Writing Student: 1_ I have a question about the first farmers. Use the conversation from Task 8 to fill out the student's notes. Teacher: Great. What is it? Student: Well, they were in a desert. How did they irrigate their 2 _____? . They connected Diale Teacher: Oh, with 3 ____ their fields and the Nile River. Name: Student: Okay. So, 4 _____ moved through Class: the ditches to the fields. Teacher: Exactly. Subject Student: Then, I have another question. How did they 5 _____ the water? Farmers got water from ___ Teacher: The ditches had 6 _____

Water came to the fields in _

They controlled water by -

opened and water flowed through.



- 1 What is the article mainly about?
 - A Animals that only produce meat
 - B The most popular types of meat
 - C Products made from animals
 - D Waste products of rendering
- 2 Which of the following is NOT a by-product? A fat
- C hooves
- B bone
- D protein
- 3 What is true of rendering?
 - A It limits waste.
 - B It is a by-product.
 - C It provides protein.
 - D It is in marshmallows.

- Read the sentence pair. Choose where the words best fit the blanks.
 - 1 wool / milk

A _____is an important food source.

- B Many clothes are made of _____
- 2 protein / leather

__is often used to cover furniture.

- B Plant products and meat contain
- 3 meat / by-products

A Humans have always used animals for

В are used in many common

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 Write a word that is similar in meaning to the underlined part. 1 Too much gily substance from plants and animals is unhealthy. 2 Hard materials that give a body structure are a by-product. 2 O _ S 3 The hard feet of animals are used to make tape. 4 h _ V _ O 4 Soap is made by melting animal fat. 7 _ O _ I I I I I I I I I I I I I I I I I	Writing
 The new product was a product with the state of the state of	Use the conversation from Task 8 and the magazine article to fill out the product description.
Manager: 1 We have a new product to sell. Miss Smith will tell us about it. Developer: Okay. Customers want natural products, right? So wade an all-natural soap. Manager: What 2 by "all-natural"? Developer: There are no extra 3 It's just the base ingredients. Manager: Sounds interesting. Will it be 4? Developer: No. After all, the main ingredient is tallow. What's	Description/Special Qualities:
Manager: 5 tallow? Oh. tallow is basically animal	
fat. It's used in 6 Manager: And it's cheap? Very. It's a by-product that few people use.	

Soil

CultiAdvice

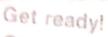
Dear Green Thumb

My tornatoes are dying. They get plenty of sun and water What am I doing wrong? -- Tom G.

Dear Tom:

Check the soil. Tomato roots need the right amount of water and air. They don't do well in sand or clay Both have the wrong soil structure. Sand particles are too loose to hold enough water Dense clay prevents aeration. You need a soil texture in between those extremes. Loam with high sift is usually good.

The other issue is nutrients. A soil's parent material determines what nutrients are in it. You can improve the nutrients by adding



- Before you read the passage, talk about these questions.
 - 1 What kind of soil is there in your country?
 - 2 Why is good soil important?

Reading

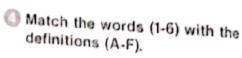
- Read the newspaper advice column. Then, mark the following statements as true (T) or false (F).
 - Tomatoes grow well in clay.
 - 2 __ Aeration does not occur in clay.
 - 3 __ Humus adds nutrients to soil.

Vocabulary

Fill in the blanks with the correct words and phrases

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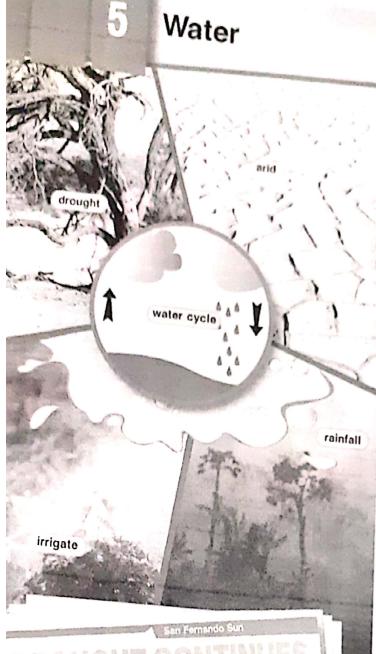
	aeration		loam	humus	soil struc
1 2 3 4 5	Some Crops don't Use	prov	to add no ides roots	utrients to s	han others.



- Soil
- 2 _ sand
- 3 _ silt
- 4 __ soil texture
- 5 __ parent material
- 6 __ dense
- A a material made of small pieces of rock and mineral
- B a material that is deposited by
- C rock and minerals that eventually form soil
- D a layer of material that plants grow in
- E the size of particles in a soil
- F having a lot of material in a small space

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(i) With a partner, act out the roles below Speaking based on Task 7. Then, switch roles. Listen and read the newspaper advice column again. What do you need to take into consideration when planting tomatoes? USE LANGUAGE SUCH AS: I need some -What kind of plants is it for? You should use --Conversation between a customer and clerk in a plant supply Student A: You work in a plant supply store. store. Choose the correct answers. What is the customer buying at the store? Talk to Student B about: type of plants c houseplants D vegetables soil types 2 Why does the clerk recommend Wonder Grow? soil description Student B: You need soil for your plants. A It contains no clay. Answer Student A's questions. B It has dense soil structure. C It supports vegetable growth. D It has good aeration and holds water. 🕜 🞧 Listen again and complete the Use the conversation from Task 8 and the Writing newspaper advice column to fill out the conversation. Clerk: Hi. Can I help you with anything? product description. Customer: Yes. I need some 1 ___ Clerk: Is this for indoor or outdoor plants? Customer: It's for indoor plants. Clerk: What kinds of plants is it for? Houseplants? flowering plants? vegetables? Product name: ___ Customer: I have some spider plants. They need to be put in 2 _____ can be used for ____ you should use Wonder Grow. It has Clerk: 3 _____ 4 _____ and 5 _____ well, too. It supports _____ and ____ Customer: Okay, 6 ____ ____ . Thanks for your help. growth. Best of all, it has _____ and ____ better than any product.



SAN FERNANDO — The Central Valley's current drought is the worst in 50 years. It started five years ago. Average rainfall in the valley is down 35%. Less rainfall in the mountains also limits the water cycle in this already arid region as well.

Many rain-fed crops are dying. Recently, many farmers dug ditches to Irrigate them. They used extra groundwater from their wells, too. Many experts say that will create water shortages in the future.

Expect higher prices for many fruits and vegetables this summer. Peaches and nectarines are an exception. Local farmers are growing drought-resistant varieties of those crops.

Get ready!

- Before you read the passage, talk about these questions.
 - 1 Where do farmers get water?
 - 2 How do water shortages hurt farmers?

Reading

- Read the article from the San Fernando Sun newspaper, Then, choose the correct answers.
 - 1 What is the article mostly about?
 - A a crop shortage
 - B a lack of rainfall
 - C new irrigation methods
 - D new types of crops
 - 2 According to the article, what will cause a water shortage in the future?
 - A raising rain-fed crops
 - B using extra groundwater
 - C farming in arid locations
 - D planting crops in the mountains
 - 3 What is true of the peaches and nectarines?
 - A They will not be damaged by the drought.
 - B They will be more expensive this year.
 - C They will need more water than most fruits. D They will be grown by out of town farmers.
- Vocabulary
- Read the sentence pair. Choose where the words best fit the blanks.
 - 1 ditch / groundwater
 - A Irrigate the crops by digging a _____
 - B Areas with a lot of _____ are ideal
 - shortage / rainfall
 - A With so much ___ ___, Dawn didn't have to water her plants.
 - B Many crops died due to the water
- rain-fed / drought-resistant
 - A Linda prefers _ she lives in an arid region. crops since
 - B Andrew doesn't irrigate; his crops are

Match the words (1-4) with the definitions (A-D).	Speaking
1 _ water cycle 3 _ arid	With a partner, act out the roles below based on Task 7. Then, switch roles.
2 drought 4 irrigate	USE LANGUAGE SUCH AS:
A to guide water to plants	My aren't doing well.
B the pattern of water moving and changing form	You could always
C receiving little rainfall	That's a good idea.
D a period of unusual dryness	•
S Listen and read the article from the San Fernando Sun newspaper again. Why has the fact that there has been less rainfall in the mountains affected the region?	Student A: You are a farmer during a drought. Talk to Student B about: • your crops • irrigation • other solutions
Listening	Student B: You are a farmer during a drought.
Solution <td>Discuss solutions with Student A.</td>	Discuss solutions with Student A.
farmers. Mark the following statements as true (T) or false (F).	
1 The man's vegetable crop died.	Writing
2 The woman might expand her irrigation	Use the conversation from Task 8 to fill
system.	out the farm report.
3 The woman does not have drought-resistant	Out the farm reposit
crops.	
G Listen again and complete the conversation.	FARM REPORT
conversation.	FARM REPORT
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